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C. Possible duplications of the functions of OSI are enumerated below with such recommendations as may be appropriate.

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1. FDD has an effective scientific and technical branch of approximately [redacted] people. This branch is charged with the translation and exploitation [redacted]

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[redacted] Exploitation has been given a generally broad interpretation by FDD and there is strong evidence of duplication between such activity and the analysis function in OSI. It is recommended that the scientific and technical branch, FDD, be transferred en toto with its functions to OSI where better utilization of manpower can be effected and where the quality of the effort may be improved through closer association with the more highly trained analysts in OSI.

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2. OCI, particularly in its military division, maintains coverage of the military aspects of science and technology and in so doing duplicates certain aspects of the research and surveillance function in OSI. A certain amount of overlap is clearly desirable but there are many indications that unnecessary duplication of OSI activities is taking place in OCI. It is questionable that speed alone justifies such a degree of duplication. It is recommended that OCI reduce its coverage of military science and technology and rely upon OSI for such intelligence.

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3. OSI, TSS, Material Board, Commo, [redacted] SA/DCI, and others are all engaged in scientific and technical activities related to intelligence problems. There appears to be little active coordination between these various areas of activity. [redacted], in a study prepared for the DD/I on 24 May 1955, discussed at length the harmful effects of such compartmentalization of personnel and activities. It is suggested that this entire problem, perhaps using [redacted] recommendations as a base, be examined.

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4. OSI is responsible for coordinating Sections 17 and 45 and Chapter 7 of the NIS. In so doing, the Office produces an editorially finished manuscript. OBI then re-edits what is conceived to be a finished product. This is a wasteful duplication of editorial personnel. It is recommended that OBI discontinue editorial review and transfer two slots to OSI for this purpose.

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D. At present each of the six primary functions assigned to OSI are being covered; however, in view of the limited manpower assigned to the Office, the quality and degree of coverage is considered dangerously inadequate in many areas. For example:

1. The study and development of new applications of science and technology to the intelligence process is becoming increasingly important especially in the field of collection where traditional sources of information are drying up. At present the Office is devoting [REDACTED] of its effort in support of this function. It is believed that this effort should be increased to [REDACTED] requiring [REDACTED] additional personnel. Such an increase is clearly consistent with the recommendations of the Technological Capabilities Panel calling for more "hard facts."

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2. The Guided Missiles and Nuclear Energy Divisions are responsible for all-source intelligence coverage in depth upon all foreign activities in their respective fields. As a consequence of limited manpower each of these divisions is forced to concentrate primarily upon identified areas of activity in the Soviet Bloc. Surveillance directed at identifying new areas of activity is neglected to a dangerous degree. Adequate coverage requires an increase of ten additional personnel.

3. Guidance and support to the coordination of scientific and technical activities is a primary statutory responsibility of the Agency. Increasing scientific and technical intelligence activities in [REDACTED]

[REDACTED] purpose. Such increases necessitates [REDACTED] additional personnel.

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4. Conduct of research and production of intelligence on the basic sciences is a primary agency function under

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DCID 3/4. The possible areas of such coverage is virtually unlimited. Present manpower is aimed at determining significant trends in foreign science and in identifying possible breakthrough areas. Even under such a restricted scope, Office coverage is manifestly inadequate. For example, within the FSA the following subjects considered of significance are receiving inadequate coverage or are being neglected; analytical chemistry, organic and inorganic chemistry, macromolecular chemistry, computers, seismology, geoelectricity, gravimetry, hydrology, oceanography, upper atmosphere, geodesy, astronomy, including astrophysics and astronautics. Proper coverage of the foregoing fields requires an increase of [REDACTED] personnel.

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E. OSI is presently obtaining intelligence information through external research projects equivalent to the work of [REDACTED] on duty personnel. Approved new contracts or contracts under development should provide for further information, especially in support of the NIS, equivalent to the work of [REDACTED] additional on duty personnel. It should be recognized, however, that information obtained from external contracts does not replace the work of OSI analysts but rather supplements such work primarily through the study of open literature and other less sensitive sources of information. For this reason, it cannot safely be concluded that external contracts justify any savings in on duty personnel; however, in view of the collateral value obtained from external research, the Office believes that aggressive efforts in this field should continue to improve the quality of information obtained on foreign basic science especially on the non-Bloc countries.

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